

CLAIMS:

Please cancel claim 14 and amend claims 1-13 and 15-17 in the following manner. This listing of claims will replace all prior versions, and listings, of claims in this application.

1. (Currently Amended) A radar system comprising:
a head containing a radar transmitter and a radar receiver and configured to be closely associated with a radar antenna; and
a signal processing unit included with said head for processing the received radar signals and for combining these the received radar signals with data from other sources[[],] and configured to simultaneously output data in ~~more than one digital format~~ multiple output data feeds for use by at least one display unit.
2. (Currently Amended) A radar system as claimed in claim 1, wherein the signal processing unit ~~can~~ simultaneously output outputs data for at least two differing processed radar signals.
3. (Currently Amended) A radar system as claimed in claim 1, wherein the ~~signal processing unit~~ ~~can~~ output at least data feeds include a raw radar ~~video~~ signal and a processed radar signal.
4. (Currently Amended) A radar system as claimed in claim 1, wherein the signal processing unit ~~can~~ simultaneously output outputs radar signals for differing radar ranges.
5. (Currently Amended) A radar system as claimed in claim 1, wherein the signal processing unit is controllable by digital input signals.
6. (Currently Amended) A radar system as claimed in claim 1, wherein the signal processing unit ~~can receive~~ receives control signals for the radar receiver and the radar transmitter.

7. (Currently Amended) A radar system as claimed in claim 1, wherein the signal processing unit ~~can receive~~ receives digital signal inputs which ~~can be~~ are added to the output data feeds during processing.

8. (Currently Amended) A radar system as claimed in claim [[7]] 1, wherein a north heading signal is combined with the received radar signal signals to allow synchrony with other data feeds.

9. (Currently Amended) A radar system as claimed in claim 1, wherein the signal processing unit ~~may output~~ outputs signals representative of additional data feeds.

10. (Currently Amended) A radar system as claimed in claim 1, wherein all signal processing is carried out digitally.

11. (Currently Amended) A radar system as claimed in claim 1, wherein the radar transmitter is controllable by digital signals from the signal processing unit.

12. (Currently Amended) A radar system as claimed in claim 1, wherein the digital signals output data feeds are to a standard specification.

13. (Currently Amended) A radar system as claimed in claim 1, wherein the digital signals output data feeds are encoded in USB, Firewire, Bluetooth or Ethernet protocol.

14. (Canceled)

15. (Currently Amended) A radar system as claimed in claim 1, wherein the digital signals output data feeds are distributed wirelessly.

16. (Currently Amended) A digital display for a radar system as claimed in claim 1 ~~wherein the display may select one or more, in combination with a digital display unit which facilitates selection of one or more of the output data signals feeds from those provided by the radar system.~~

17. (Currently Amended) A digital display for a radar system as claimed in claim 1, in combination with a digital display unit wherein the digital display unit has inputs allowing remote control of the radar transmitter, the receiver or the signal processing unit.